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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/721,892	11/26/2003		Mathias Alterman	E072.1010.1	5982
7	590	07/26/2006	EXAMINER		
WOMBLE C. Post Office Bo			STOCKTON, LAURA LYNNE		
Atlanta, GA 30357-0037				ART UNIT	PAPER NUMBER
				1626	

DATE MAILED: 07/26/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

155									
•		Applicat	ion No.	Applicant(s)	Applicant(s)				
		10/721,8	10/721,892 ALTERMAN ET AL.		AL.				
	Office Action Summary	Examine	r	Art Unit					
		Laura L.	Stockton, Ph.D.	1626					
Period fo	The MAILING DATE of this communication Reply	ion appears on th	e cover sheet with	the correspondence a	address				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL Insions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communical period for reply is specified above, the maximum statutor re to reply within the set or extended period for reply will, be reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF T CFR 1.136(a). In no e ation. y period will apply and v by statute, cause the ap	HIS COMMUNICA vent, however, may a repl vill expire SIX (6) MONTH plication to become ABAN	ATION. y be timely filed S from the mailing date of this IDONED (35 U.S.C. § 133).					
Status									
1)⊠	Responsive to communication(s) filed or	n May 17, 2006							
·	_	This action is	non-final		•				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
٠,٣	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	ion of Claims	,	. ,	,					
· <u> </u>		cation							
•	Claim(s) <u>1-41</u> is/are pending in the application.								
	4a) Of the above claim(s) <u>2-4,6-8,28-31 and 36-41</u> is/are withdrawn from consideration. Claim(s) is/are allowed.								
·									
· ·	Claim(s) <u>1, 5, 9-17, 19-27 and 32-35</u> is/are rejected.								
•	Claim(s) <u>18</u> is/are objected to. Claim(s) are subject to restriction and/or election requirement.								
		and/or election	equilement.						
Applicati	on Papers								
9)	The specification is objected to by the Ex	aminer.							
10)	The drawing(s) filed on is/are: a)[☐ accepted or b)□ objected to by	the Examiner.					
	Applicant may not request that any objection	to the drawing(s)	be held in abeyance	. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the	correction is requi	red if the drawing(s)	is objected to. See 37	CFR 1.121(d).				
11)[The oath or declaration is objected to by	the Examiner. N	ote the attached C	Office Action or form F	PTO-152.				
Priority u	ınder 35 U.S.C. § 119								
	Acknowledgment is made of a claim for		_	19(a)-(d) or (f).					
	1. Certified copies of the priority doc								
	2. Certified copies of the priority doc			***					
	3. Copies of the certified copies of the		*	ceived in this Nationa	al Stage				
	application from the International I	•	` ''						
* S	see the attached detailed Office action for	r a list of the cert	ified copies not re	ceived.					
Attachmen									
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-9	M8\		nmary (PTO-413) Iail Date					
	e of Dialisperson's Patent Drawing Review (PTO-9 nation Disclosure Statement(s) (PTO-1449 or PTO			mal Patent Application (P	TO-152)				
	r No(s)/Mail Date <u>11/26/03&4/5/04</u> .	•	6) Other:						

DETAILED ACTION

Claims 1-41 are pending in the application.

Election/Restrictions

Applicants' election with traverse of IV (claims 1, 5, 9-27 and 32-35), and the species found on page 34, lines 12-13 (reproduced below) in the reply filed on May 17, 2006 is acknowledged.

Example 1

N-Butyloxycarbonyl-3-(4-imidazol-1-ylmethylphenyl)-5-iso-butylthiophene-2-sulfonamide

The traversal is on the ground(s) that: (1) no question of unity of invention rejection was raised in

PCT/GB02/02563; and (2) a 31-way restriction requirement is extremely surprising and believed unnecessary.

In response, the Examiner is not bound by the decisions made in the International phase of an International application. Further, the instant application is a CIP of PCT/GB02/02563. Further, the instant claims embrace a multiple of inventions. The claims are directed to patentably distinct compounds, methods of use, methods of making and various formulas embracing various intermediates (i.e., compounds of Formula V as found in Group XX and on page 11 of the instant specification). Therefore, Applicants' arguments are not persuasive.

Applicants argue that Groups I through V relate to compounds having a tetrazole, 1,2,4-triazole, pyrazole, imidazole and 1,2,3-triazole ring and Applicants consider these separate inventions unified and that a prior art search would identify compounds of Formula I

in which the requisite nitrogen-containing ring is tetrazole would also identify compounds which are 1,2,4-triazoles, pyrazoles, imidazoles, and 1,2,3-triazoles. Applicants argue that the compounds have structural unity and are also effective and/or selective AT2 receptor agonists. Applicants argue that structural differences between the final products of formula I and the various intermediates of Formulas II, V, etc. Applicants inquired whether or not the intermediates would be rejoined. Applicants has suggested a three-way restriction opposed to the 31-way restriction.

All of Applicants' arguments have not been considered but have not been found persuasive. It is disagreed that a prior art search would identify compounds of Formula I in which the requisite nitrogencontaining ring is tetrazole would also identify compounds which are 1,2,4-triazoles, pyrazoles, imidazoles, and 1,2,3-triazoles. Note that the cited

prior art only teaches the elected Group IV imidazole ring (see below art rejection). Separate search considerations are involved for each of the patentably distinct heterocyclic rings. Also, independent claim 1 has provisos which also complicate the type of search and consideration for each potential prior art reference. Therefore, it would be a burden for the Examiner to search, independently, each and every one of the inventions embraced by the current claims.

Applicants have suggested a three-way restriction in opposed to the 31-way restriction. In response, a three-way restriction would put an untold amount of burden on the Examiner whose time is very limited, less than a 8-hour day to examine an application (including searching and the preparation of an Office Action). However, the Examiner would be receptive to other suggestions (i.e., possibly combining one or two other final product groups with the elected invention of Group IV) for restricting the instant application but

with the understanding that prosecution will <u>not</u> be extended. Additionally, as stated in the Restriction requirement on page 12, Applicants can state clearly on the record that the compound groups are not patentably distinct.

Further, the intermediates were restricted out because the intermediates are not embraced by independent claim 1. Intermediates are not subject to rejoinder because the intermediates do not have all of the limitations of any allowed final products.

However, in this case, the Examiner will delay the decision on the intermediates until such a time if the final products are indicated as allowable.

The requirement is still deemed proper and is therefore made FINAL.

Subject matter not embraced by elected Group IV and Claims 2-4, 6-8, 28-31 and 36-41 are withdrawn from

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further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected inventions. Applicant timely traversed the restriction (election) requirement in the reply filed on

May 17, 2006.

It is suggested that in order to advance prosecution, the non-elected subject matter be canceled when responding to this Office Action.

In accordance with M.P.E.P. §821.04 and <u>In re</u>

<u>Ochiai</u>, 71 F.3d 1565, 37 USPQ 1127 (Fed. Cir. 1995),
rejoinder of product claims with process claims
commensurate in scope with the allowed product claims
will occur following a finding that the product claims
are allowable. Until, such time, a restriction between
product claims and process claims is deemed proper.
Additionally, in order to retain the right to rejoinder

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in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution to maintain either dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Priority

Acknowledgment is made of applicant's claim for foreign priority based on applications filed in the United Kingdom on May 31, 2001, September 7, 2001 and January 26, 2002. It is noted, however, that applicant has not filed certified copies of the United Kingdom applications as required by 35 U.S.C. 119(b).

Information Disclosure Statement

The Examiner has considered the Information

Disclosure Statement(s) filed on November 26, 2003 and

April 5, 2004.

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Claim Objections

Claims 23 and 26 are objected to because of the following informalities:

- a) in claim 23, an "and" is needed before the definition of \mathbb{R}^6 ; and
- b) in claim 26, typographical errors in the nomenclature {i.e., spacing, dashes or parenthesis} need to be corrected in the 2nd, 4th, 5th, 6th and 13th compounds listed in the claim.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 9 and 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 9 lacks antecedent basis from claim 1 (note CF_3 in claim 9).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 5, 9-17, 19-27 and 32-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kleemann et al. {U.S. Pat. 6,335,451} in view of Corbier et al. {U.S. Pat. 5,807,878}.

Determination of the scope and content of the prior art (MPEP \$2141.01)

Applicants claim imidazole compounds. Kleemann et al. teach imidazole compounds that are structurally similar to the instant claimed compounds and are useful

in treating, for example, angina pectoris. See in

Kleemann et al., for example, formula I in column 1

wherein R1, R2, R3, R4 and R5 each represent is

hydrogen (columns 1-2; columns 14-20; and especially

the particularly preferred compounds starting at column

4, line 15).

Ascertainment of the difference between the prior art and the claims (MPEP §2141.02)

The difference between the compounds of Kleemann et al. and the compounds instantly claimed is that Kleemann et al. do not teach the substituents defined by the instant R^4 variable. Kleeman et al. teach a sulfonylcyanamide group instead of the various substituents defined by the instant R^4 variable.

Finding of prima facie obviousness--rational and motivation (MPEP \$2142-2413)

However, Corbier et al., also teach imidazole compounds that are useful in treating angina pectoris

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(column 30, lines 10-26) and that are structurally similar to the compounds of Kleemann et al. (column 1). Corbier et al. teach the interchangeability of sulfonylcyanamide group (column 4, line 4) and a substituent embraced of the instant R⁴ variable (column 4, line 5).

One skilled in the art would thus be motivated to prepare products embraced by Kleemann et al. especially in view of the teachings of Corbier et al. to arrive at the instant claimed products with the expectation of obtaining additional beneficial products which would be useful in treating, for example, angina pectoris. The instant claimed invention would have been suggested and therefore, obvious to one skilled in the art.

Allowable Subject Matter

The elected species, found on page 34 on lines 12-13 of the instant specification, is allowable over the art of record.

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Claim 18 is objected to as being dependent upon a rejected base claim, but would be allowable if: (1) rewritten in independent form including all of the limitations of the base claim and any intervening claims; and (2) directed solely toward the subject matter of elected Group IV.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura L. Stockton whose telephone number is (571) 272-0710. The examiner can normally be reached on Monday-Friday from 6:15 am to 2:45 pm. If the examiner is out of the Office, the examiner's supervisor, Joseph McKane, can be reached on (571) 272-0699.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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The Official fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Laura L. Stockton, Ph.D.

Patent Examiner

Art Unit 1626, Group 1620

Technology Center 1600

July 21, 2006